

Application of amperometric immunoenzyme sensors to the determination of bacterial antigens

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Abstract

A new version of immunoenzyme assay for the antigens of pathogenic microorganisms *Streptococcus pyogenes* and *Staphylococcus aureus* based on the use of amperometric sensors is proposed for their determination in diagnosing infectious diseases (tonsillitis of different severities). The best conditions for sensor operation were chosen, and the quantitative characteristics of the antibodies used and the antigen-antibody immune complexes formed. The sensors developed were tested with blood serums from ill patients, and the possibility of the differential diagnostics of diseases, at the early stages of their development, in particular, was demonstrated.

<http://dx.doi.org/10.1023/B:JANC.0000014746.01726.3d>
